

510/k): k101935

OCT 2 7 2010

APPENDIX B

510(k) Summary of safety and effectiveness

510(k) OWNER INFORMATION

Company name:

CenterVue SpA

В. Company address: via Tommaseo 77, 35131, Padova, ITALY

Company phone:

+39 049 781 1828

Company fax:

+39 049 781 1899

D. Contact person:

Giuliano Barbaro, Managing Director

E. Revised summary date: September 21st 2010

SUBMITTER INFORMATION

Company name:

Donawa Lifescience Consulting Srl

Company address: В.

Piazza Albania, 10, 00153 Rome, ITALY

Company phone:

+39 06 578 2665

D. Company fax: +39 06 574 3786

E. Contact person:

Roger Gray, VP Quality and Regulatory

DEVICE IDENTIFICATION

Generic Device name:

Camera, ophthalmic, ac-powered

В.

Trade/proprietary name: Digital Retinography System DRS

Classification:

Ш

Product code:

HKI

DEVICE DESCRIPTION

The DRS is an ophthalmic camera used to take colored digital images of a human retina without use of a mydriatic agent. The instrument body includes: optical head, head-rest, chin rest and a base. The device integrates a dedicated computer and a touch-screen display and operates as a standalone unit, running a dedicated software application. The device is provided with a front lens cap, a power cord and spare fuses.



INTENDED USE

The CenterVue Digital Retinography System DRS is intended for taking digital images of a human retina without the use of a mydriatic agent.

SUBSTANTIAL EQUIVALENCE

The DRS device is substantially equivalent to the following predicate devices with regard to intended use, operating principle, and function:

Predicate Device	510(k) Holder	510(k) No.	Date cleared
EyeScan	Ophthalmic Imaging Systems	K092374	17 November 2009
Orion	Nidek Technologies Srl	K070231	24 April 2007

TEST DATA

The DRS has undergone extensive performance testing before release to ensure that the device and its software meet the functional requirements and to demonstrate equivalence to the predicate devices.

A summary of the results of performance testing vs. the device requirements follows:

Performance item	Requirements	Test results	
Sensor resolution	48 pixels / degree	48.15 pixels / degree	
Resolution on retina	≥ 60 line pairs/mm at the center of the field ≥ 40 line pairs/mm at the mid field (r/2) ≥ 25line pairs/mm at the periphery of the field (r)	Yes Yes Yes	
Field of view	45° horizontal x 40° vertical	42.95° horizontal x 40.3° vertical	
Pixel pitch	6 μm	6.39 μm	
Range of focus	-15 D to + 15 D	-15 D to + 15 D	
Minimum pupil size	4.0 mm	4.0 mm	
Position of internal fixation targets for central and peripheral fields	CENTRAL: field centered on the foveal pit NASAL: field centered 17° nasally to the fovea TEMPORAL: field centered 17° temporally to the fovea SUPERO-TEMPORAL: field centered 12° superiorly and 12° temporally to the fovea PERI-CENTRAL: field centered 5° nasally to the fovea SUPERIOR: field centered 17° superiorly to the fovea INFERIOR: field centered 17° inferiorly to the fovea	Actual position (for normally fixating subjects) within ±1° from expected position	
OD/OS detection	Device captures OD or OS or both based on operator's selection	Yes (tested on multiple subjects)	
Auto-alignment	Device automatically aligns to the center of the pupil prior to auto-focusing and capture	Yes (tested on multiple subjects)	



PERFORMANCE STANDARDS

The DRS complies with the following standards: IEC 60601-1:2005; IEC 60601-1-2:2007; ISO 10940-2:2009; ISO 15004-2 2007.

CONCLUSION

As described in this 510(k) Summary, all testing deemed necessary was conducted on the DRS to ensure that the device is safe and effective for its intended use, when used in accordance with its Instructions for Use, and equivalence with the identified predicate devices has been demonstrated.

CenterVue SpA

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

CENTERVUE SpA c/o Mr. Roger Gray Vice President, Quality and Regulatory Donawa Lifescience Consulting Srl Piazza Albania, 10 00153 Rome, Italy

OCT 2 7 2010

Re: K101935

Trade/Device Name: Digital Retinography System (DRS)

Regulation Number: 21 CFR 886.1120 Regulation Name: Ophthalmic Camera

Regulatory Class: II Product Code: HKI

Dated: September 29, 2010 Received: October 4, 2010

Dear Mr. Gray:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Malvina B. Eydelman, M.D.

Director

Division of Ophthalmic, Neurological, and Ear, Nose and Throat Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Page 1 of 1 Rev.2 Apr 4, 2008

Appendix A

Indications for Use Statement

610(k) Number (if known): K101935									
Device Name: CenterVue Digital Retinography System DRS .									
Indications for Use: The Cente digital images of a human retina	_			r taking					
Prescription Use (Part 21 CFR 801 Subpart D) (PLEASE DO NOT WRIT		AND/OR W THIS LINE		□ HER					
Concurrence of Concur	<i></i>		ce Evaluation (ODE)						
Nose and Throat Devices		7							